

TFW  
2821

In re U.S. Application of:

Applicants: Takeda et al.

Serial No.: 09/663,580

Conf. No.: 2108

Filed: September 15, 2000

For: VERTICALLY-ALIGNED (VA)  
LIQUID CRYSTAL DISPLAY  
DEVICE

Art Unit: 2871

Examiner: Nguyen, D.



I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date

February 10, 2006  
Date

*Josh C. Snider*  
Attorney for Applicant(s)  
Registration No. 47,954

Mail Stop RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL**

Dear Sir:

Transmitted herewith is a communication regarding the above-identified application.

- (X) Information Disclosure Statement (in duplicate) with Form PTO-1449 with oath and copies of cited foreign references.
- (X) Information Disclosure Statement (in duplicate) with Form PTO-1449 with fee and copies of cited foreign references.
- (X) Request for Acknowledgment of consideration of an Information Disclosure Statement (with copies of originally filed Information Disclosure Statements, forms PTO 1449, and postcards).
- (X) If a Petition under 37 C.F.R. §1.136(a) for an extension of time for response is required to make the attached response timely and does not separately accompany this transmittal, Applicant(s) hereby petition(s) under 37 C.F.R. §1.136(a) for an extension of time for response in the above-identified application for the period required to make the attached response timely.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R. §§1.16-1.17, or credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Customer No. 24978

GREER, BURNS &amp; CRAIN, LTD.

February 10, 2006

300 South Wacker Drive  
Suite 2500  
Chicago, Illinois 60606  
Telephone: (312) 360-0080  
Facsimile: (312) 360-9315  
P:\DOCS\4328\64680\9V8462.DOC

By: *Josh C. Snider*  
Josh C. Snider  
Registration No. 47,954

PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Application of:

Conf. No.: 2108

Applicants: Takeda et al.

Serial No.: 09/663,580

Filed: September 15, 2006

For: VERTICALLY-ALIGNED (VA)  
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DEVICE

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Examiner: Nguyen, D.



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February 10, 2006  
Date

*[Signature]*  
Attorney for Applicant(s)  
Registration No. 47,954

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This IDS is submitted under 37 C.F.R. §1.97(c), after the C.F.R. §1.97(b) time period, but before the mail date of a Final Office Action or a Notice of Allowance (whichever occurs first), with either:

- (a) a statement under 37 C.F.R. §1.97(e); or
- (b) the \$180.00 fee under 37 C.F.R. §1.17(p).

Applicant(s) submit herewith Form PTO-1449 (Information Disclosure Citation) together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. Applicant(s) respectfully submit that the citation of any reference on Form PTO-1449 does not constitute an admission that the reference qualifies as prior art.

It is requested that the information disclosed on the enclosed Form PTO-1449 be made of record in this application.

( ) Statement Under 37 C.F.R. §1.97(e):

- ( ) The enclosed references were cited in a Communication issued by the Japanese Patent Office (copy enclosed). Applicant(s) hereby certify that each item of information cited on the enclosed Form PTO-1449 was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement.
- ( ) Applicant(s) hereby certify that no item of information cited on the enclosed Form PTO-1449 was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing below after making reasonable inquiry, no item of information cited on the enclosed Form PTO-1449 was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

(X) Enclosed is a check for \$180.00 to cover the fee as set forth in 37 C.F.R. §1.17(p).

The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R. §§1.16-1.17, or to credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

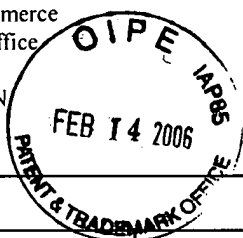
**Customer No. 24978**  
February 10, 2006  
300 South Wacker Drive  
Suite 2500  
Chicago, Illinois 60606  
Telephone: (312) 360-0080  
Facsimile: (312) 360-9315  
P:\DOCS\4328\64680\9Y5668.DOC

Respectfully submitted,  
GREER, BURNS & CRAIN, LTD.

By: *[Signature]*  
Josh C. Snider, Reg. No. 47,954

02/15/2006 H0000012 09663580 180.00 DP  
01 FC:1806

Form PTO-1449 U.S. Department of Commerce  
(Rev. 8-88) Patent and Trademark Office



Attorney Docket No.: 2803.64680

Serial No.: 09/663,580

Applicant: Takeda et al.

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Filing Date: September 15, 2000

Group: 2871

#### U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,385,806		Ferguson			
	4,701,028		Clerc			
	4,786,147		Clerc			
	4,889,412		Clerc			
	5,579,140		Yamahara			
	5,745,206		Koike			
	5,757,451		Miyazaki			
	5,907,380		Lien			
	6,147,729		Kurauchi			
	6,288,762		Sasaki			

#### FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	GB 1,462,978	Jan. 26, 1977	England			Abs.	
	JP 6-082777	March 25, 1994	Japan			Abs.	
	JP 9-033882	Feb. 7, 1997	Japan				

#### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Soref et al.; "Electrically Controlled Birefringence of Thin Nematic Films," Journal of Applied Physics, Vol. 43, Bi, 5, May 1972, pp. 2029-2037.

Examiner

Date Considered

\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PATENT APPLICATION  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Application of:

Conf. No.: 2108

Applicants: Takeda et al.

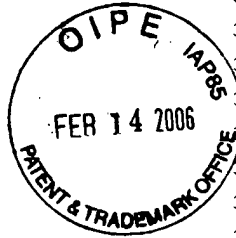
Serial No.: 09/663,580

Filed: September 15, 2000

For: VERTICALLY-ALIGNED (VA)  
LIQUID CRYSTAL DISPLAY  
DEVICE

Art Unit: 2871

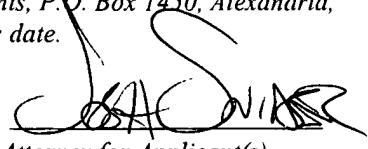
Examiner: Nguyen, D.



I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

February 10, 2006

Date

  
Attorney for Applicant(s)  
Registration No. 47,954**INFORMATION DISCLOSURE STATEMENT**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This IDS is submitted under 37 C.F.R. §1.97(c), after the C.F.R. §1.97(b) time period, but before the mail date of a Final Office Action or a Notice of Allowance (whichever occurs first), with either:

- (a) a statement under 37 C.F.R. §1.97(e); or  
(b) the \$180.00 fee under 37 C.F.R. §1.17(p).

Applicant(s) submit herewith Form PTO-1449 (Information Disclosure Citation) together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 C.F.R. §1.56. Applicant(s) respectfully submit that the citation of any reference on Form PTO-1449 does not constitute an admission that the reference qualifies as prior art.

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The Commissioner is hereby authorized to charge any additional fees which may be required to this application under 37 C.F.R. §§1.16-1.17, or to credit any overpayment, to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

**Customer No. 24978**  
February 10, 2006  
300 South Wacker Drive  
Suite 2500  
Chicago, Illinois 60606  
Telephone: (312) 360-0080  
Facsimile: (312) 360-9315  
P:\DOCS\4328\64680\9Y5662.DOC

Respectfully submitted,  
GREER, BURNS & CRAIN, LTD.

By:   
Josh C. Snider, Reg. No. 47,954



Form PTO-1449 U.S. Department of Commerce (Rev. 8-88) Patent and Trademark Office  <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	Attorney Docket No.: 4328.64682  Applicant: Takeda et al.	Serial No.: 09/679,455  Filing Date: October 4, 2000 Group: 2871
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**U.S. PATENT DOCUMENTS**

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	4,701,028	Oct. 20, 1987	Clerc et. al.			
	6,061,116	May 9, 2000	Nishida et. al.			

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	04-251285	Sept. 7 1992	Japan			Abs.	
	07-120767	May 12, 1995	Japan			Abs.	
	08-022023	Jan. 23, 1996	Japan			Abs.	
	08-095054	April 12, 1996	Japan			Abs.	
	07-333617	Dec. 22, 1995	Japan			Abs.	
	08-043825	Feb. 16, 1996	Japan			Abs.	
	60-256121	Dec. 17, 1985	Japan			*X	
	WO97/012275	April 3, 1997	WIPO			**X (and Abs.)	
	02-035416	Feb. 6, 1990	Japan			Abs.	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

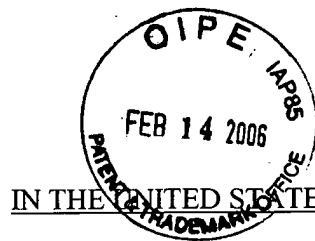
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Examiner	Date Considered
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\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\* 60-256121 correspondes to U.S. Patent No. 4,701,028  
 \*\* WO97/012275 correspondes to U.S. Patent No. 6,061,116

2803.64680



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Application of:

Applicants: Takeda et al.

Serial No.: 09/663,580

Conf. No.: 2108

Filed: September 15, 2000

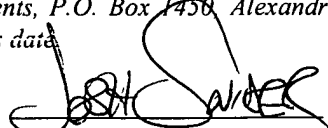
For: VERTICALLY-ALIGNED (VA)  
LIQUID CRYSTAL DISPLAY  
DEVICE

Art Unit: 2871

Examiner: Nguyen, D.

)  
)  
) I hereby certify that this paper is being deposited with  
) the United States Postal Service as FIRST-CLASS mail  
) in an envelope addressed to: Mail Stop Amendment  
) Commissioner for Patents, P.O. Box 1450, Alexandria,  
) VA 22313-1450, on this date

) February 10, 2006  
) Date

  
Attorney for Applicant(s)  
Registration No. 47,954

**REQUEST FOR ACKNOWLEDGMENT OF  
CONSIDERATION OF AN INFORMATION DISCLOSURE STATEMENT**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Applicants respectfully request acknowledgment of the Information Disclosure Statements ("IDS") filed on May 2, 2001, July 2, 2001, and July 5, 2001. Courtesy copies of the IDS's, Forms PTO-1449, and postcards are enclosed.

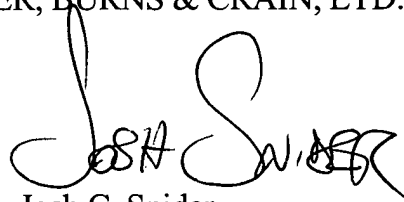
To date, no acknowledgement of these IDS's has been received by Applicants. Applicants request such acknowledgment of consideration in the form of an initialed copy of the Information Disclosure Citations (Form PTO-1449).

Should there be any questions regarding this paper, the Examiner is invited to contact the undersigned attorney at the number listed below.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By

A handwritten signature in black ink, appearing to read "Josh C. Snider". The signature is stylized with a large, looping "J" and "S".

Josh C. Snider

Registration No. 47,954

**Customer No. 24978**

February 10, 2006

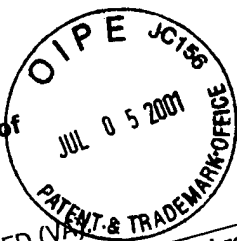
300 South Wacker Drive  
Suite 2500

Chicago, Illinois 60606

Telephone: (312) 360-0080

Facsimile: (312) 360-9315

P:\DOCS\4328\64680\9Y5135.DOC



**PATENT APPLICATION**  
File No. 2803.64680  
PGB:kmw  
7-2-01

**In re Patent Application of**  
**Takeda et al.**  
Serial No. 09/663,580  
Filed: 9-15-00  
For: VERTICALLY-ALLIGNED (VA)

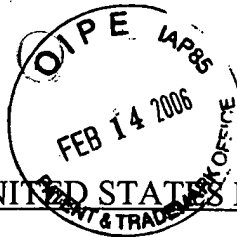
**Enclosed is an IDS, PTO Form 1449; cited references; and Certificate of Mailing.**

Assistant Commissioner for Patents  
Please acknowledge receipt of the above identified document by applying the Patent and Trademark Office receipt hereto and mailing this card.  
Respectfully,  
GREER, BURNS & CRAIN, LTD.

7/13/01



2803.64680



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Takeda et al.

Serial No. 09/663,580

Filed: September 15, 2000

For: VERTICALLY-ALLIGNED  
(VA) LIQUID CRYSTAL  
DISPLAY DEVICE

Art Unit: 2871

Examiner: Nguyen, D.

*I hereby certify that this paper is being deposited with the United States Postal Service as FIRST-CLASS mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on this date.*

*5 July 01*  
Date  
F-CLASS WCM  
Appr. February 20, 1998

*RTB*  
Registration No. *29367*  
Attorney for Applicant

SUBMISSION OF CORRECTED FORM PTO 1449

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The references filed with an Information Disclosure Statement on May 7, 2001 are believed to have included a copy of the following reference, which was inadvertently omitted from the Form PTO 1449 mailed with that IDS.

OTHER DOCUMENTS

1. Okamoto; MVA Liquid Crystal Technology - Latest Version of VA Liquid Crystals; *Nikkei Flat Panel Display*; Part 3-6; Pages 104-107.

A corrected Form PTO 1449 is enclosed. A courtesy copy of the reference is also enclosed.

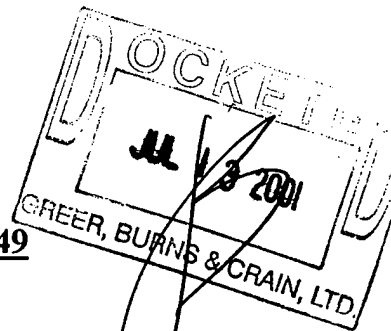
The fee of \$180.00 was paid on May 2, 2001.

Respectfully submitted,  
GREER, BURNS & CRAIN, LTD.

By

Patrick G. Burns  
Registration No. 29,367

July 3, 2001  
300 South Wacker Drive - Suite 2500  
Chicago, Illinois 60606  
Telephone: 312.360.0080  
Facsimile: 312 360 0315



Form PTO-1449 U.S. Department of Commerce  
(Rev. 8-88) Patent and Trademark Office

Attorney Docket No.: 2803.64680

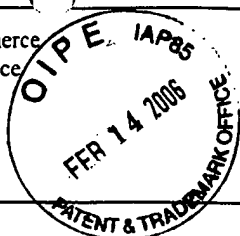
Serial No.: 09/663,580

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Applicant: Takeda et al.

Filing Date: 9/15/00

Group: 2871



## U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,136,407	Aug. 4, 1992	Clerc			Mar. 4, 1991
	5,298,199	Mar. 29, 1994	Hirose et al.			Oct. 11, 1991
	5,434,690	Jul. 18, 1995	Hisatake et al.			Jul. 26, 1994
	5,583,679	Dec. 10, 1996	Ito et al.			May 31, 1995
	5,608,556	Mar. 4, 1997	Koma			Jun. 21, 1994
	5,953,093	Sep. 14, 1999	Hirata et al.			Nov. 10, 1998
	5,986,732	Nov. 16, 1999	Ozeki et al.			Sep. 23, 1996
	5,995,190	Nov. 30, 1999	Nagae et al.			Mar. 6, 1997
	6,191,836	Feb. 20, 2001	Woo et al.			Jun. 5, 1997

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Okamoto; MVA Liquid Crystal Technology - Latest Version of VA Liquid Crystals; <i>Nikkei Flat Panel Display</i> ;
	Part 3-6; Pages 104-107.

Examiner

Date Considered

\*Examiner:

Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



**In re Patent Application of  
Takeda et al.**  
Serial No. 09/663,580  
Filed: 9-15-00  
For: VERTICALLY-ALLIGNED (VA) . . .

**PATENT APPLICATION**

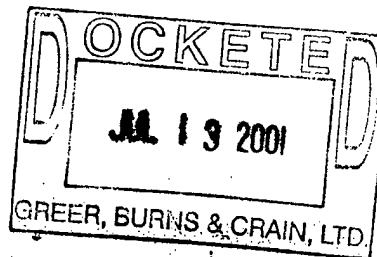
File No. 2803.64680  
PGB:kmw  
7-2-01

Enclosed is an IDS, PTO Form 1449; cited references; and Certificate of Mailing.

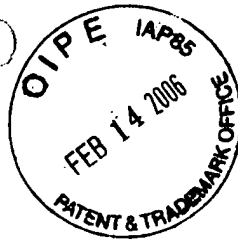
Assistant Commissioner for Patents

Please acknowledge receipt of the above identified document by applying the Patent and Trademark Office receipt hereto and mailing this card.

Respectfully,  
GREER, BURNS & CRAIN, LTD.



2803.64680



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Takeda et al.

Serial No. 09/663,580

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(VA) LIQUID CRYSTAL  
DISPLAY DEVICE

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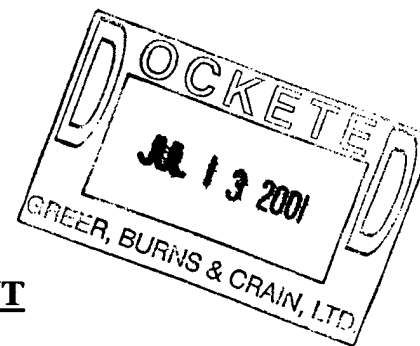
*2 July 01*  
Date

F-CLASS.WCM

Appr. February 20, 1998

*[Signature]*  
Registration No. 29367

Attorney for Applicant



INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants through counsel herewith submit copies of the patents, as set forth in the attached form PTO-1449 as follows:

U.S. PATENT DOCUMENTS

<u>PATENT NO.</u>	<u>PATENTEE</u>	<u>ISSUE DATE</u>
5,673,092	Horie et al.	Sep. 30, 1997
5,917,572	Kurauchi et al.	Jun. 29, 1999
6,061,117	Horie et al.	May 9, 2000

FOREIGN PATENT DOCUMENTS

<u>DOCUMENT</u>	<u>COUNTRY</u>	<u>DATE</u>
7-199205	Japan	Aug. 4, 1995

<u>DOCUMENT</u>	<u>COUNTRY</u>	<u>DATE</u>
6-258649	Japan	Sep. 16, 1994
7-234414	Japan	Sep. 5, 1995
8-292423	Japan	Nov. 5, 1996
7-281195	Japan	Oct. 27, 1995
7-318950	Japan	Dec. 8, 1995
9-43592	Japan	Feb. 14, 1997
9-120075	Japan	May 6, 1997
7-104450	Japan	Nov. 13, 1995
2507122	Japan	Apr. 2, 1996
445 777	Europe	Sep. 11, 1991
676 661	Europe	Oct. 11, 1995

#### REMARKS

JP 7-234414 corresponds to U.S. Patent No. 5,434,690 (cited on May 1, 2001); JP 7-104450 corresponds to U.S. Patent No. 5,298,199 (cited on May 1, 2001); JP 2507122 corresponds to EP 445,777; JP 8-292423 corresponds to U.S. Patent No. 5,673,092 and 6,061,117; JP 7-281195 corresponds to EP 676,661; and JP 9-120075 corresponds to U.S. Patent No. 5,917,572.

The enclosed Japanese references were first cited in a Communication issued by the Japanese Patent Office (copy enclosed), and the corresponding English language patents (except the '690 and '199 patents) were found thereafter. Applicants

hereby certify that the above Japanese references were first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Statement, and the corresponding English language patents (except the '690 and '199 patents) were not known more than three (3) months prior to the filing of this Statement.

The Commissioner is hereby authorized to charge any fees which may be required or credit any overpayment, to Deposit Account No. 07-2069. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 07-2069. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

GREER, BURNS & CRAIN, LTD.

By



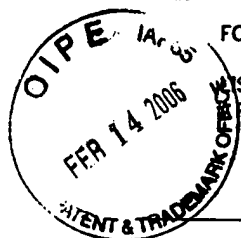
Patrick G. Burns  
Registration No. 29,367

July 2, 2001

300 South Wacker Drive  
Suite 2500  
Chicago, Illinois 60606  
Telephone: 312.360.0080  
Facsimile: 312.360.9315

## PATENT APPLICATION

Sheet 1



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

2803.64680

APPLICATION NO.

09/663,580

CONFIRMATION NO.

APPLICANT

Takeda et al.

FILING DATE

Sep. 15, 2000

GROUP

2871

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	1A	5,673,092	Sep. 30, 1997	Horie et al.	349	86
	1B	5,917,572	Jun. 29, 1999	Karauchi et al.	349	156
	1C	6,061,117	May 9, 2000	Horie et al.	349	156
	1D					
	1E					
	1F					
	1G					
	1H					
	1I					
	1J					
	1K					

## FOREIGN PATENT DOCUMENTS

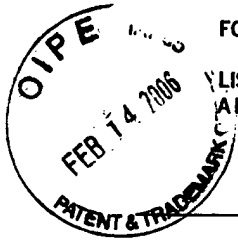
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	1M	6-258649	Sep. 16, 1994	Japan			x	
	1N	7-234414	Sep. 5, 1995	Japan				x
	1O	8-292423	Nov. 5, 1996	Japan				x
	1P	7-281195	Oct. 27, 1995	Japan				x

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	1Q	
	1R	
	1S	

EXAMINER

DATE CONSIDERED



FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

2803.64680

APPLICATION NO.

09/663,580

CONFIRMATION NO.

APPLICANT

Takeda et al.

FILING DATE

Sep. 15, 2000

GROUP

2871

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
	2A					
	2B					
	2C					
	2D					
	2E					
	2F					
	2G					
	2H					
	2I					
	2J					
	2K					

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	TRANSLATION	
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	2L	7-318950	Dec.8,1995	Japan			x	
	2M	9-43592	Feb.14, 1997	Japan			x	
	2N	9-120075	May.6,1997	Japan				x
	2O	7-104450	Nov. 3, 1995	Japan				x
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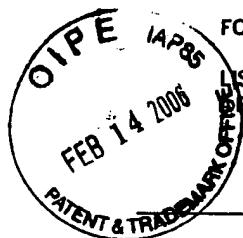
## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

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	3A					
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	3C					
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	3J					
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## FOREIGN PATENT DOCUMENTS

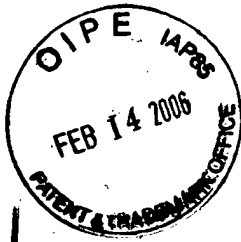
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	3M	676 661	Oct.11,1995	Europe			x	
	3N							
	3O							
	3P							

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	3Q	
	3R	
	3S	

EXAMINER

DATE CONSIDERED



In re Patent Application of  
Takeda et al.

Serial No. 09/663,580

Filed: 9-15-00

For: VERTICALLY-ALLIGNED (VA)...

Enclosed is an IDS, PTO Form 1449; cited references; filing fee of \$180.00; and  
Certificate of Mailing.

Assistant Commissioner for Patents

Please acknowledge receipt of the above identified document by applying the Patent  
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Respectfully,

GREER, BURNS & CRAIN, LTD.

PATENT APPLICATION

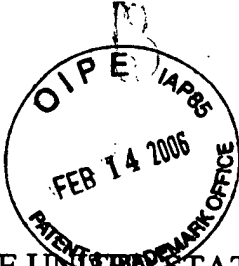
File No. 2803.64680

PGB:sk

May 2, 2001

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2803.64680



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re U.S. Patent Application )

Applicant: Takeda et al. )

Serial No. 09/663,580 )

Filed: 9/15/00 )

For: VERTICALLY-ALLIGNED )  
(VA) LIQUID CRYSTAL )  
DISPLAY DEVICE )

Art Unit: 2871 )

I hereby certify that this paper is being deposited with  
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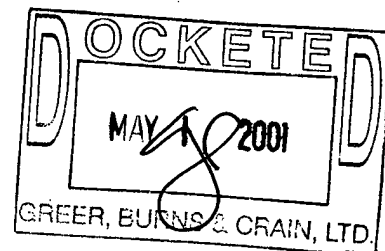
2 May 01

Date  
F-CLASS.WCM

Appr. February 20, 1998

Registration No. 29367

Attorney for Applicant



INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants through  
counsel herewith submit copies of the patents, along with filing fee of \$180.00, as set forth in  
the attached form PTO-1449 as follows:

U.S. PATENT DOCUMENTS

<u>PATENT NO.</u>	<u>PATENTEE</u>	<u>ISSUE DATE</u>
5,136,407	Clerc	Aug. 4, 1992
5,298,199	Hirose et al.	Mar. 29, 1994
5,434,690	Hisatake et al.	Jul. 18, 1995

<u>PATENT NO.</u>	<u>PATENTEE</u>	<u>ISSUE DATE</u>
5,583,679	Ito et al.	Dec. 10, 1996
5,608,556	Koma	Mar. 4, 1997
5,953,093	Hirata et al.	Sep. 14, 1999
5,986,732	Ozeki et al.	Nov. 16, 1999
5,995,190	Nagae et al.	Nov. 30, 1999
6,191,836	Woo et al.	Feb. 20, 2001

### FOREIGN PATENT DOCUMENTS

<u>PATENT NO.</u>	<u>COUNTRY</u>	<u>ISSUE DATE</u>
7-43719	Japan	Feb. 14, 1995

### REMARKS

The cited references are of record in one or more related cases. It is respectfully requested that the above-listed documents be made of record in the present application.

Respectfully submitted,

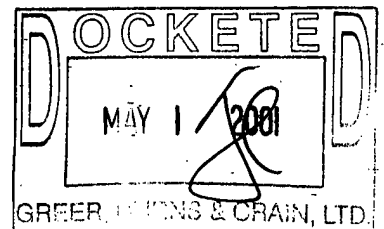
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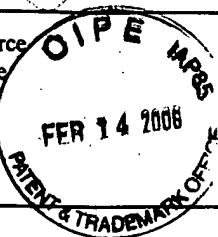
By

  
Patrick G. Burns

Registration No. 29,367

May 1, 2001  
300 South Wacker Drive  
Suite 2500  
Chicago, Illinois 60606  
(312) 360 0080



Form PTO-1449  
(Rev. 8-88)U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: 2803.64680

Serial No.: 09/663,580

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Applicant: Takeda et al.

Filing Date: 9/15/00

Group:

## U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	5,136,407	Aug. 4, 1992	Clerc			Mar. 4, 1991
	5,298,199	Mar. 29, 1994	Hirose et al.			Oct. 11, 1991
	5,434,690	Jul. 18, 1995	Hisatake et al.			Jul. 26, 1994
	5,583,679	Dec. 10, 1996	Ito et al.			May 31, 1995
	5,608,556	Mar. 4, 1997	Koma			Jun. 21, 1994
	5,953,093	Sep. 14, 1999	Hirata et al.			Nov. 10, 1998
	5,986,732	Nov. 16, 1999	Ozeki et al.			Sep. 23, 1996
	5,995,190	Nov. 30, 1999	Nagae et al.			Mar. 6, 1997
	6,191,836	Feb. 20, 2001	Woo et al.			Jun. 5, 1997

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	7-43719	Feb. 14, 1995	Japan				X

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


Examiner	Date Considered
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\*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.